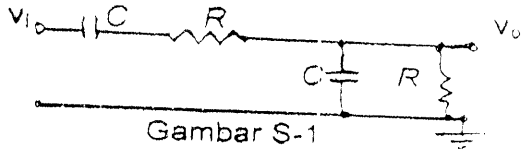
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
UJIAN AKHIR SEMESTER GASAL T.A. 2010/2011
PROGRAM STUDI FISIKA

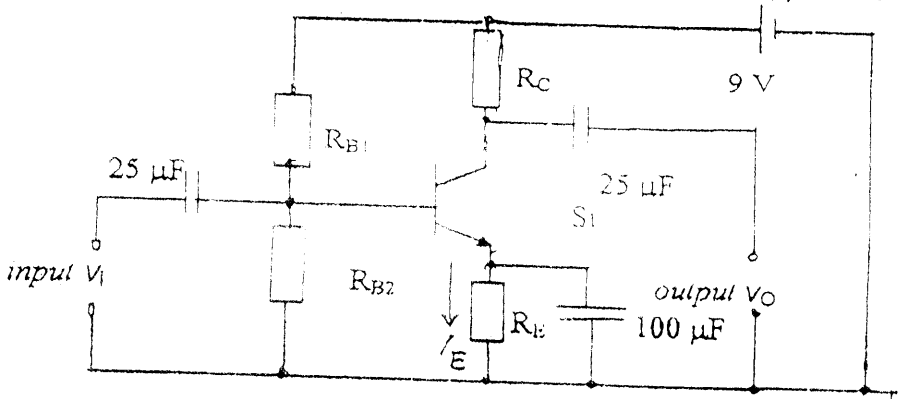
Matakuliah	**: Elektronika dasar**	**Kode : MFS 2516**
Dosen	**: Drs. Masiran, M.Si.**	**Waktu: 90 menit**
Hari/tgl.	**: Rabu, 5 Januari 2011**	**Sifat : Buku terbuka**

1. Dari rangkaian Gambar S-1, $v_o \angle v_i = A_v = A_v \angle \theta = A_v \angle 53°$. Hitung A_v.



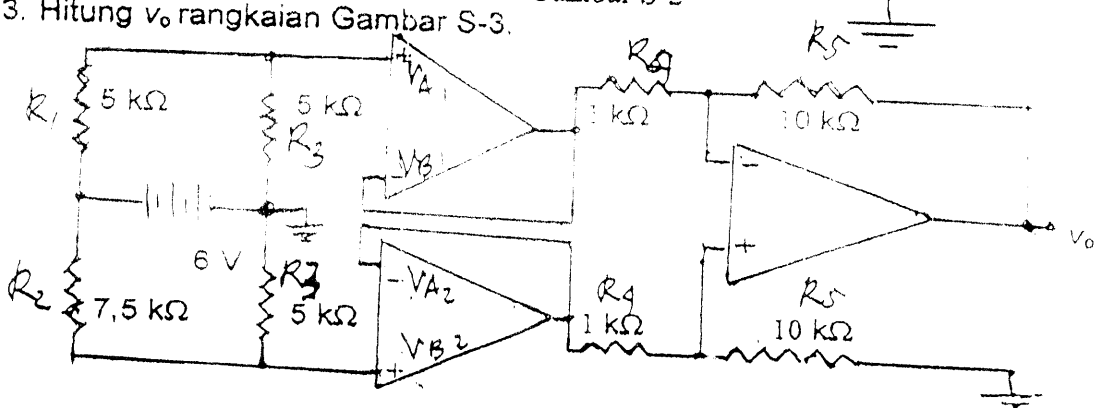
Gambar S-1

2. Dari rangkaian Gambar S-2 diketahui R_C = 3,3 kΩ; R_E = 1 kΩ; R_{B1} = 10 kΩ; R_{B2} = 2,2 kΩ; v_i = 2 mV, 1kHz. Transistor silikon, β = 200. Hitung I_E dan v_O.



Gambar S-2

3. Hitung v_o rangkaian Gambar S-3.



Gambar S-3

Penguat selisih

$$V_o = -\frac{R_4}{R_3}\left(V_{A1} - V_{B2}\right)$$